LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. No claims have been amended, canceled, or added herein.

 (Previously presented) A method of transferring a set of data over a network between a local computing device and a remote computing device, the method comprising:

monitoring the level of actual network bandwidth utilization of the local computing device;

identifying a maximum monitored level, wherein the maximum monitored level is a maximum of the monitored level of actual network bandwidth utilization of the local computing device;

calculating a threshold level of utilization as a function of the maximum monitored level of utilization; and

if the actual level is less than the threshold level, transferring at least a portion of the set of data over the network between the local computing device and the remote computing device.

- (Original) The method of claim 1, wherein a client receives the data over the network from a server.
- (Original) The method of claim 2, wherein said monitoring occurs at the interface between the client and the network.
 - 4. (Original) The method of claim 1, wherein the network is the Internet.

5. (Original) The method of claim 1, wherein the threshold level is equal to a

predetermined percentage of the maximum monitored level.

6. (Original) The method of claim 1, wherein the set of data includes a

software update.

(Original) The method of claim 1, further comprising repeating at least

said monitoring step each time a portion of the set of data is received.

8. (Original) The method of claim 7, wherein said receiving step includes

separately receiving a plurality of discrete portions of the set of data over the network when the

actual level is less than the threshold level

9. (Original) The method of claim 8, further comprising incrementing a

counter each time a discrete portion of the data is received over the network.

10. (Original) The method of claim 9, wherein the size of the discrete portions

of the data is a function of the value of the counter.

11. (Canceled)

12. (Original) The method of claim 9, further comprising clearing the counter

after receiving all of the plurality of discrete portions of the data over the network.

13. (Original) The method of claim 9, further comprising clearing the counter

if the level of actual utilization becomes greater than the threshold level.

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14. (Original) The method of claim 8, further comprising suspending the

receipt of discrete portions of the data if the level of actual utilization becomes greater than the

threshold level.

15. (Original) The method of claim 14, further comprising resuming the

receipt of discrete portions of the data from the point of suspension when the level of actual

utilization becomes less than the threshold level.

16. (Original) The method of claim 1, further comprising:

repeating said monitoring step each time a portion of the set of data is

received;

identifying a maximum level of utilization during receipt of the set of data;

and

calculating a threshold level of utilization for the set of data as a function

of the maximum level of utilization identified during receipt of the set of data.

17. (Original) The method of claim 16, wherein said identifying step includes

estimating the maximum level of utilization during receipt of the set of data by calculating an

average level of utilization for the set of data upon repeating said monitoring step a

predetermined number of times during receipt of the set of data.

(Original) The method of claim 16, further comprising receiving at least a

portion of the set of data over the network if the actual level is less than the threshold level for

the set of data.

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19. (Original) The method of claim 16, further comprising receiving at least a

portion of a second set of data over the network if the actual level is less than the threshold level

for the set of data.

20. (Previously Presented) A computer-readable medium having computer-

executable instructions for performing the method recited in claim 1.

21. (Original) A computer system having a memory, an operating system and

a central processor, said processor being operable to execute the instructions stored on the

computer-readable medium of claim 20.

22. (Previously Presented) A computer-readable medium having stored

thereon a data structure, comprising:

a first data field containing data representing a maximum monitored level.

wherein the maximum monitored level is a maximum of a monitored level of

actual network bandwidth utilization; and

a second data field containing data representing a threshold level of

network bandwidth utilization below which data may be transferred over the

network without interfering with other network activity, wherein said second data

field is derived from said first data field by calculating the threshold level as a

function of the maximum monitored level.

23. (Original) The computer-readable medium of claim 22, wherein the

threshold level is calculated as a predetermined percentage of the maximum monitored level.

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24. (Original) The computer-readable medium of claim 22, wherein the actual

network bandwidth utilization is monitored at an interface between a client machine and the

network.

25. (Previously Presented) A computer-readable medium having computer-

executable components for managing the transfer of data over a network between a local

computing device and a remote computing device, comprising:

a bandwidth monitoring component which monitors the level of actual

bandwidth utilization for a network connection of the local computing device and

identifies a maximum monitored level, wherein the maximum monitored level is a

maximum of the monitored level of actual bandwidth utilization for the network

connection of the local computing device:

a threshold calculating component which calculates a threshold level of

utilization as a function of the maximum monitored level of utilization identified

by said bandwidth monitoring component; and

a transfer management component which manages the transfer of data

over the network between the local computing device and the remote computing

device when the level of actual bandwidth utilization is less than the threshold

level of utilization.

26. (Original) The computer-readable medium of claim 25, wherein the

network connection is an interface between a client machine and the network.

27. (Original) The computer-readable medium of claim 25, wherein the

threshold level is calculated as a predetermined percentage of the maximum monitored level.

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28. (Previously Presented) A method of communicating between a client

process and a server process over a network, the method comprising:

(a) issuing to the server process a first download request which

identifies a file and which requests that the server process download a first

segment of the file over the network, provided the actual network bandwidth

utilization is less than a threshold level below which data may be transferred over

the network without interfering with other network activity, wherein the threshold

level is calculated as a function of a maximum monitored level, and wherein the

maximum monitored level is a maximum of a monitored level of actual network

bandwidth utilization;

(b) downloading, by the server process, the first segment of the file;

(c) issuing to the server process a further download request which is

associated with the file and which requests that the server process download a

further segment of the file over the network, provided the actual network

bandwidth utilization is less than the threshold level;

(d) downloading, by the server process, the further segment of the file;

and

(e) repeating steps (c) and (d) until the server process has downloaded

each segment of the file over the network.

29. (Previously Presented) The method of claim 1, wherein a client machine

receives the data over the network without substantially interfering with the ability of a user of

the client machine to engage in other network activity.

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30. (Previously Presented) The method of claim 1, wherein the data is

received over the network without substantially interfering with any other network activity.

31. (Previously Presented) A method for a computer to regulate a data transfer

between the computer and a network through which the computer communicates, the method

being performed by the computer and comprising:

monitoring a changing rate of amount of data communicated between the

network and the computer;

repeatedly determining a changing maximum of the rate of amount of data

communicated between the network and the computer;

repeatedly determining a changing threshold rate of data communication

based on the changing maximum rate of amount of data communicated between

the network and the computer; and

repeatedly determining whether to resume or suspend the data transfer

between the network and the computer based on the changing threshold rate of

data communication and based on the changing rate of amount of data

communicated between the computer and the network, and resuming or

suspending the data transfer accordingly.

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